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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7981-2 (1976): Specification For Instruments.
Tuboplasty, Part II: Cannula, Shirodkar's Pattern [MHD 3:
Obstetric and Gynaecological Instruments and Appliances]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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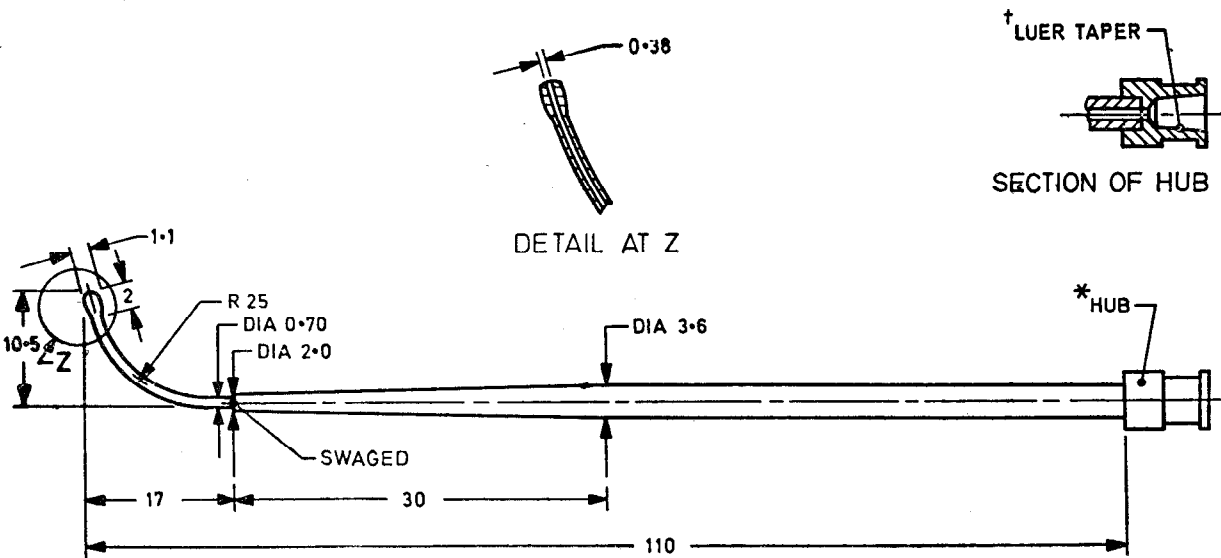




Indian Standard
SPECIFICATION FOR
INSTRUMENTS, TUBOPLASTY

PART II CANNULA, SHIRODKAR'S PATTERN

1. **Scope** — Specifies dimensional and other requirements for Shirodkar's pattern cannula used for tuboplasty in obstetrics.
2. **Shape and Dimensions** — As shown in Fig. 1.
- 2.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.

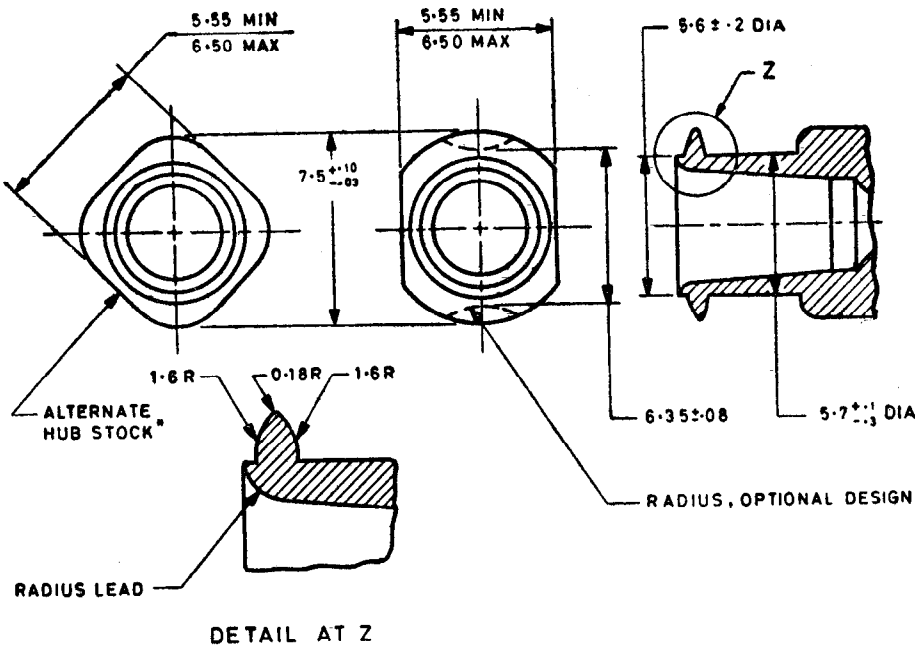


*See Fig. 2 for details.

†See IS : 3234-1965 ' Specification for conical fitting for hypodermic syringes, needles and other medical equipment, Luer type '.

All dimensions in millimetres.

FIG. 1 CANNULA, SHIRODKAR'S PATTERN



All dimensions in millimetres.

FIG. 2 HUB, LUER LOCK

IS : 7981 (Part II) - 1976

3. Material

3.1 Cannula — Seamless drawn tube having 0.80 mm wall thickness and 3.6 mm outer diameter made of stainless steel of Designation 04Cr18Ni10 or 07Cr18Ni9 of Schedule V of IS : 1570 (Part V)-1972 'Schedules for wrought steels: Part V Stainless and heat-resisting steels (*first revision*) '.

3.2 Hub — Free cutting brass rods or bars conforming to IS : 319-1974 ' Specification for free-cutting brass bars, rods and sections (*third revision*) ' or stainless steel of Designation 30Cr13 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

4. Workmanship and Finish

4.1 The cannula shall be free from scales, pits, burrs and other surface defects.

4.2 The hole in the cannula shall be well formed.

4.3 The brazing or soldering shall be neat and sound.

4.4 The tip of the working end shall be bulbous.

4.5 The cannula shall be polished bright and passivated.

4.6 Hub, if made of brass, shall be plated, both inside and outside with chromium over nickel and the plating shall conform to Service Grade 2 of IS : 4827-1968 ' Specification for electroplated coatings of nickel and chromium on copper and copper alloys '.

5. Tests

5.1 Copper Sulphate Test — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool.

5.1.1 The copper sulphate solution shall be prepared as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Distilled water [see IS : 1070-1960 ' Specification for water, distilled quality (<i>revised</i>) ']	90.0 ml

5.1.2 No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

6. Marking — Mark with the following:

- Manufacturer's name, initials or recognized trade-mark; and
- The words ' Stainless steel ' if both cannula and hub are made of stainless steel.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

7. Packing — The cannula shall be wrapped in moisture-proof paper or packed in polyethylene bags. The cannula shall then be individually packed in cartons.